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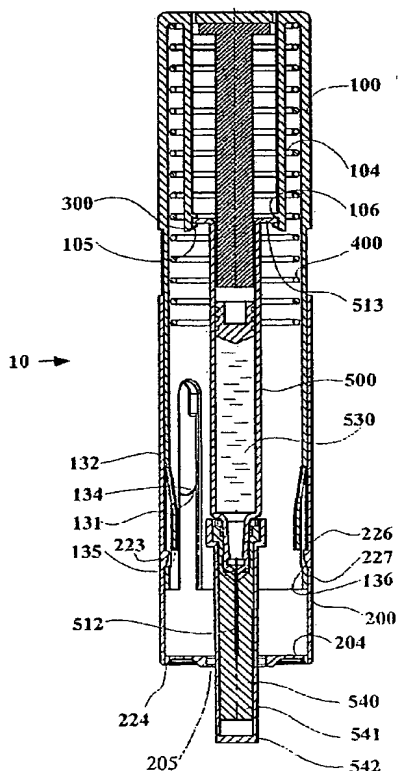
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(54) Title: INJECTING APPARATUS



(57) Abstract: An injector is automatic in that the needle is inserted into the in-  
jection site (e.g., a patient's skin) with user or caregiver assistance, the delivery is  
automatically initiated upon needle insertion, and the needle is retracted automat-  
ically after the end of delivery. Preferably the needle is not seen by the user prior  
to, during or after injection. Prior to and after injection, the needle is hidden in the  
device so as to avoid any potential injury or health risk to the user or health care  
provider. The injector (10) includes a housing (100) and a shield (200) arranged to  
slide relative to the housing and a driver (300) moving during drug delivery. The  
housing (100) and shield (200) form a cartridge enclosure. The cartridge (500)  
is shielded and locked after delivery is completed. A needle-locking mechanism  
can be used in any number of pen-like injectors or safety needles.

WO 2005/009515 A1



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